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TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

September 30, 2008

TO: Internal File

THRU: James D. Smith, Permit Supervisor *DS* *ie/v/100*

FROM: Priscilla W. Burton, CPSSc, Environmental Scientist III *PWB by an*

RE: Topsoil Analysis Wells G-18, G-19, G-31 and AMV Road, Canyon Fuel Company, Dugout Canyon Mine, C/007/0039, Task ID #3048

SUMMARY:

Supplemental information for the Dugout Mine Degas. Volume Attachment 2-1 was received on September 11, 2008. Canyon fuel sampled the topsoil from well sites G-19, G-19, G-31 and the AMV road in January 2009. The soil was analyzed by Intermountain Laboratories, Sheridan. These sites are located northeast of the Pace Canyon Fan Portal in Sec 20 of T13 S., R.13 E (Table 1.1, Figure 1-1, and Plate 1-4).

The specific soils information for degasification well sites G-2 through G-19 and G-31 is found in Attachment 2-1 (**Methane Degasification Amendment**) of the MRP. (Sites G-1 and G-8 were not developed.)

The following parameters were analyzed: texture (particle size analysis), pH, Electrical Conductivity, Sodium Adsorption Ratio, percent CaCO₃, plant available Nitrogen, Potassium, and Phosphorus (Section 243). Soil sample analyses are found in Attachment 2-1. Soils of along the AMV road and associated pads are clay loam, of neutral pH and high in phosphorus.

The application is recommended for approval. There is no change to the Master Technical Analysis with this amendment.

RECOMMENDATIONS:

The application is recommended for approval. There is no change to the Master Technical Analysis with this amendment.